

What is claimed is:

1. An optical pickup which condenses light emitted from a light source using an objective lens and irradiates the light on an optical recording medium in order to record data on the optical recording medium and/or reproduce the data recorded on the optical recording medium, comprising:  
an optical element for adjusting the convergence and/or divergence of light emitted from the light source and then proceeded to the objective lens.
2. The optical pickup of claim 1, wherein the optical element is a hologram optical element that can adjust the convergence and/or divergence of incident light.
3. The optical pickup of claim 1, further comprising a collimating lens, wherein the light emitted from the light source is converted into parallel light after passing through the collimating lens and the optical element.
4. The optical pickup of claim 3, wherein the collimating lens has a focal length of 14 mm or less.
5. The optical pickup of any one of claims 1 through 4, wherein the optical pickup has a slim structure.
6. The optical pickup of claim 3 or 4, wherein the optical element is disposed between the light source and the collimating lens.
7. The optical pickup of claim 6, further comprising a beam shaping device which is disposed between the collimating lens and the objective lens and makes the shape of the light.

8. The optical pickup of claim 3 or 4, further comprising a beam shaping device which is disposed between the collimating lens and the objective lens and makes the shape of the light.

5 9. The optical pickup of any one of claims 1 through 4, wherein the light source includes a plurality of light sources for emitting light having different wavelengths and the optical element includes at least one optical element for adjusting the convergence and/or divergence of light emitted from at least one of the plurality of light sources so that the optical pickup is a compatible optical pickup that can be used in a  
10 plurality of optical recording media having different formats.

10. An optical recording and/or reproducing apparatus which records data on an optical recording medium and/or reproduces the data recorded on the optical recording medium using an optical pickup which condenses light emitted from a light  
15 source using an objective lens and irradiates the light on the optical recording medium, wherein the optical pickup includes an optical element for adjusting the convergence and/or divergence of light emitted from the light source and then proceeded to the objective lens.

20 11. The optical recording and/or reproducing apparatus of claim 10, wherein the optical element is a hologram optical element that can adjust the convergence and/or divergence of incident light.

25 12. The optical recording and/or reproducing apparatus of claim 10, wherein the optical pickup further includes a collimating lens, and the light emitted from the light source is converted into parallel light after passing through the collimating lens and the optical element.

13. The optical recording and/or reproducing apparatus of claim 12, wherein the collimating lens has a focal length of 14 mm or less.

14. The optical recording and/or reproducing apparatus of any one of claims 5 10 through 13, wherein the optical pickup has a slim structure.

15. The optical recording and/or reproducing apparatus of claim 12 or 13, wherein the optical element is disposed between the light source and the collimating lens.

10 16. The optical recording and/or reproducing apparatus of claim 15, wherein the optical pickup further includes a beam shaping device which is disposed between the collimating lens and the objective lens and makes the shape of the light.

15 17. The optical recording and/or reproducing apparatus of claim 12 or 13, wherein the optical pickup further includes a beam shaping device which is disposed between the collimating lens and the objective lens and makes the shape of the light.

18. The optical recording and/or reproducing apparatus of any one of claims 1 20 through 4, wherein the light source includes a plurality of light sources for emitting light having different wavelengths and the optical element includes at least one optical element for adjusting the convergence and/or divergence of light emitted from at least one of the plurality of light sources so that the optical pickup is a compatible optical pickup that can be used in a plurality of optical recording media having different formats.

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